



# 6

## SEQUENCE LISTING

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<120> Novel Vector Constructs

<130> 4-31890A/GTI

<140> US 10/081,961  
<141> 2002-02-22

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<151> 2001-02-23

<160> 8

<170> PatentIn version 3.1

<210> 1  
<211> 140  
<212> DNA  
<213> Simian virus 40

<220>  
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<222> (1)..(140)  
<223> Fig. 1 A

<400> 1  
cttatcgata ccgtcgaaac ttgtttattg cagcttataa tggttacaaa taaagcaaca 60  
caaatttcac aaataaagca ttttttcac tgcattctag ttgtggtttgc tccaaactca 120  
tcaatgtatc ttatcatgtc 140

<210> 2  
<211> 600  
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<220>  
<221> misc\_feature  
<222> (1)..(600)  
<223> Fig. 2 - E1A transcription control region

<400> 2  
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60  
ttgtgcgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcgaaagtgt 120  
gatgttgcaa gtgtgcggaa acacatgtaa gcgcacggatg tggcaaaagt gacgttttg 180  
gtgtgcggcg gtgtacacag gaagtgacaa tttcgcgcg gttttaggcg gatgtttag 240  
taaatttggg cgttaaccgag taagattttt ccattttcgc gggaaaactg aataagagga 300  
atgaaatctt gaataattttt gtgttactca tagcgcgtaa tatttgcgtca gggccgcggg 360  
gactttgacc gtttacgtgg agactcgccc aggtttttt ctcaggtgtt ttccgcgttc 420  
cgggtaaag ttggcgttt attattatacg tcagctgacg tgcgtgtat ttatacccg 480

tgagttcctc aagaggccac tcttgagtgc cagcgagtag agtttctcc tccgagccgc	540
tccgacaccg ggactaaaa tgagacatat tatctgccac ggaggtgtta ttaccgaaga	600
<210> 3	
<211> 1802	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> viral vector construct	
<220>	
<221> misc_feature	
<222> (1)..(1802)	
<223> Fig. 3 A - left end of Ar6pAE2fF sequence	
<400> 3	
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt	60
tttgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcga tcaagcttat	120
cgtatccgtc gaaacttgtt tattgcagct tataatggtt acaaataaaag caatagcatc	180
acaaatttca caaataaaagc attttttca ctgcattcta gttgtggttt gtccaaactc	240
atcaatgtat ttatcatgt ctggatccgc gcccgtacgc atcatccgga caaaggctgc	300
gcgcgccccg ccccgccatt gcgcgtaccc ccccgccgc ccgcggccatc tcgcccctcg	360
ccgcgggttc cggcgcgtta aagccaatag gaaccgcgc cgttggcccc gtcacggccg	420
gggcagccaa ttgtggcggc gtcggcggc tcgtggctct ttgcggcaa aaaggatttg	480
gcgcgtaaaaa gtggccggga ctttgcagggc agcggcggcc gggggcggag cggatcgag	540
ccctcgatga tatcagatca tcggatcccg gtcgactgaa aatgagacat attatctgcc	600
acggaggtgt tattaccgaa gaaatggccg ccagtctttt ggaccagctg atcgaagagg	660
tactggctga taatcttcca cctccttagcc attttgaacc acctaccctt cacgaactgt	720
atgattttaga cgtacggcc cccgaagatc ccaacgagga ggcggtttcg cagatttttc	780
ccgactctgt aatgttggcg gtgcaggaag ggattgactt actcaacttt ccgcggcgc	840
ccggttctcc ggagccgcct caccttccc ggcagcccgca gcagccggag cagagacgc	900
tgggtccggt ttctatgcca aacttgtac cggaggtgat cgatcttacc tgccacgagg	960
ctggctttcc acccagtgac gacgaggatg aagagggtga ggagttgtg ttagattatg	1020
tggagcaccc cgggcacggc tgcaggtctt gtcattatca ccggaggaat acgggggacc	1080
cagatattat gtgttcgctt tgctatatga ggacctgtgg catgtttgtc tacagtaagt	1140
gaaaattatg ggcagtgggt gatagagtgg tgggtttgggt gtggtaattt ttttttaat	1200
ttttacagtt ttgtgttta aagaattttg tattgtgatt tttttaaaag gtccctgtgc	1260
tgaacctgag cctgagcccg agccagaacc ggaggctgca agacctaccc gccgtcctaa	1320
aatggcgcct gctatctga gacgcccgcac atcacctgtg tctagagaat gcaatagtag	1380
tacggatagc tgtgactccg gtccttctaa cacacctctt gagatacacc cgggtgtccc	1440
gtgtgtcccc attaaaccag ttgcccgtgag agttgggtgg cgtcgccagg ctgtggaaatg	1500
tatcgaggac ttgcttaacg agcctggca acctttggac ttgagctgta aacgccccag	1560
gccataaggt gtaaacctgt gattgcgtgt gtggtaacg cctttgtttg ctgaatgagt	1620
tgtatgtaaat ttaataaaagg gtgagataat gttaacttg catggcgtgt taaatgggc	1680
ggggcttaaaa gggtatataa tgcgcgttgg gctaattctt gttacatctg acctcatgga	1740
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ca	1802
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<211> 532	
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<213> Artificial Sequence	
<220>	
<223> viral vector construct	

<220>  
 <221> misc\_feature  
 <222> (1)..(532)  
 <223> Fig. 3 B - right end of Ar6pAE2fF sequence

<400> 4  
 aacctacgcc cagaaacgaa agccaaaaaa cccacaactt cctcaaatcg tcacttccgt 60  
 tttcccacgt tacgtcactt cccattttaa ttaagaattc tacaattccc aacacataca 120  
 agttactccg ccctaaaaacc ctgggcgagt ctccacgtaa acggtaaag tccccgcggc 180  
 cctagacaaa tattacgcgc tatgagtaac acaaaaattat tcagattca cttcctctta 240  
 ttcagtttc cccgaaaaat ggc当地atct tactcggtt cgc当地aaatt tactacaaca 300  
 tccgcctaaa accgcgcgaa aattgtcaact tcctgtgtac accggcgcac accaaaaacg 360  
 tcactttgc cacaatccgtc gcttacatgt gttccgcccac acttgcaaca tcacacttcc 420  
 gccacactac tacgtcacc ccccccgttcc cacgc当地cgc gccc当地tccac 480  
 ccctcattat catattggct tcaatccaaa ataaggtata ttattgatga tg 532

<210> 5  
 <211> 660  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> viral vector construct

<220>  
 <221> misc\_feature  
 <222> (1)..(660)  
 <223> Fig. 4 - left end of Ar6F sequence

<400> 5  
 catcatcaat aatacacctt attttggatt gaagccaata tgataatgag ggggtggagt 60  
 ttgtgacgtg gcgc当地ggc tgggaacggg gc当地gggtgacg tagggcgcgc cgctagcgat 120  
 atcggatccc ggtcactga aatgagaca tattatctgc cacggagggtg ttattaccga 180  
 agaaaatggcc gccagtc当地t tggaccagct gatc当地agag gtactggctg ataatcttcc 240  
 acctccttagc catttgaac cacctaccc tcacgaaactg tatgatttag acgtgacggc 300  
 ccccgaaagat cccaaacgagg aggccggttgc gca当地ttt cccgactctg taatgttggc 360  
 ggtc当地ggaa gggattgact tactcaactt tccgc当地ggc cccggttctc cggagccgccc 420  
 tcaccccttcc cggc当地gccc agcagccgga gc当地gagagcc ttgggtccgg tttctatgcc 480  
 aacacccgttcc cccgagggtga tc当地atcttac ctgc当地acgag gctggcttcc cacc当地gtga 540  
 cgacgaggat gaagagggtg aggagttgt gttagattat gtggagcacc cc当地ggcacgg 600  
 ttgc当地gtct tgtcattatc accggaggaa tacggggac ccagatatta tgtttcgct 660

<210> 6  
 <211> 660  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> viral vector construct

<220>  
 <221> misc\_feature  
 <222> (1)..(660)  
 <223> Fig. 5 - left end of Ar6pAF sequence

<400> 6  
 catcatcaat aatacacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg	gcgcggggcg	tggAACGGG	gcgggtgacg	tagggcgca	tcaagttat	120
cgataccgtc	gaaacttgtt	tattgcagct	tataatggtt	acaaataaaag	caatagcatc	180
acaaatttca	caaataaaagc	attttttca	ctgcattcta	gttgggttt	gtccaaactc	240
atcaatgtat	cttacatgt	ctggatccgc	gccgctagcg	atatcgatc	ccggtcgact	300
gaaaatgaga	catattatct	gccacggagg	tgttattacc	gaagaaatgg	ccgcccagtct	360
tttggaccag	ctgatcgaag	aggtaactgac	tgataatctt	ccacctcta	gccattttga	420
accacctacc	cttcacgaac	tgtatgattt	agacgtgacg	ccccccgaag	atcccaacga	480
ggaggcggtt	tcgcagattt	ttcccgactc	tgtaatgttg	gcgggtcagg	aagggattga	540
cttactca	tttccgccgg	cgcccggttc	tccggagccg	cctcaccctt	ccccgcagcc	600
cgagcagccg	gagcagagag	ccttgggtcc	ggtttctatg	ccaaaccttg	taccggaggt	660

<210> 7  
<211> 11  
<212> DNA  
<213> Human adenovirus type 5

<220>  
<221> misc\_feature  
<222> (1)..(11)  
<223> 11 bp repeat element in the Ela enhancer

<400> 7  
aggaagtgac a 11

<210> 8  
<211> 24  
<212> DNA  
<213> Artificial Sequence

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<223> Viral vector sequence

<220>  
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<222> (1)..(24)  
<223> Fig. 1C. SV40 early Poly(A) site

<220>  
<221> polyA\_site  
<222> (3)..(24)  
<223>

<400> 8  
gcaaaaaaaaaaaaaaaa aaaaaaaa aaaa 24